

Title (en)  
Channel waveguide modulator.

Title (de)  
Kanalwellenleitermodulator.

Title (fr)  
Modulateur à guide d'ondes en forme de sillon.

Publication  
**EP 0288778 A2 19881102 (EN)**

Application  
**EP 88105318 A 19880401**

Priority  
US 4319087 A 19870427

Abstract (en)  
An optical modulator comprises a crystal whose top surface includes an channel waveguide (12, 22) whose axis makes an angle with the crystal optic axis larger than the critical angle for TE-polarized leaky mode propagation. An electrode structure (13, 23, 24) overlies the top surface of the crystal for inducing mode conversion of TM-polarized waves propagating in the waveguide to lossy radiation modes.

IPC 1-7  
**G02B 6/12**; **G02F 1/01**; **G02F 1/03**

IPC 8 full level  
**G02F 1/035** (2006.01); **G02F 1/01** (2006.01)

CPC (source: EP US)  
**G02F 1/035** (2013.01 - EP US); **G02F 1/0142** (2021.01 - EP US); **G02F 2201/066** (2013.01 - EP US)

Designated contracting state (EPC)  
AT DE FR GB NL

DOCDB simple family (publication)  
**EP 0288778 A2 19881102**; **EP 0288778 A3 19910109**; CA 1295406 C 19920204; JP S63284519 A 19881121; US 4791388 A 19881213

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**EP 88105318 A 19880401**; CA 563861 A 19880412; JP 10373188 A 19880426; US 4319087 A 19870427